on the variation, and it is much to be desired that someone in the Cape or Australia will take it up.

The position of the star for 1906 is R.A. $13^h\ 36^m\ 2^s$, Decl. $-33°\ 5'.5$; No. 4896 in Chandler's List of New Variables supplementary to Cat. in No. 300 of the *Ast. Journal.* It is also No. 252 of *Centaurus* in the *Uran. Arg.*

On 1895 May 14 it was slightly orange in tint; May 15, in $2\frac{3}{4}$-inch refractor, various powers, 28 to 200, noted as slightly yellow. Generally speaking, towards maximum it appears yellowish with tinge of orange; and after maximum I think the orange tint is slightly more pronounced.

It may possibly be of the type of *S Vulpeculæ* or *R Sagittæ*, although the range of variation is greater.

Gibraltar: 1895 *October.*

Results of Filar Micrometer Comparisons of Saturn with 96 *Virginis, and of Ceres with Neighbouring Stars.* By John Tebbutt.

The accompanying table contains the results of comparisons with the filar-micrometer on the 8-inch equatorial. In the comparisons of *Saturn* the first and north, and second and south, limbs were observed alternately, and the differences of R.A. and N.P.D. for both planets have been corrected for refraction, and a small error in the perpendicularity of the micrometer threads. The semidiameter of *Saturn* and the parallaxes of both planets have been taken from the *Nautical Almanac*, and the resulting geocentric places have finally been compared with the ephemerides on page 262 of the almanac and page 4 of its appendix. The errors for *Saturn* differ but little from those determined by me in May last from comparisons with *κ Virginis* and already forwarded to the Society.

Saturn.

Date.	Windsor Mean Time.	Planet's Centre – Star. R.A.	Planet's Centre – Star. N.P.D.	No. of Comps.	Star Reductions R.A.	Star Reductions N.P.D.	Parallax Corrections. R.A.	Parallax Corrections. N.P.D.	Geocentric Apparent Place of Planet's Centre. R.A.	Geocentric Apparent Place of Planet's Centre. N.P.D.	Comp. Star.	Error of *Nautical Almanac* R.A.	Error of *Nautical Almanac* N.P.D.
1895.	h m s	m s	′ ″		s	″	s	′	h m s	° ′ ″		s	″
Aug. 4	7 10 28	−3 22·65	− 7 51·8	20	+1·96	+14·6	+0·03	+0·4	14 0 4·22	99 42 36·2	1	+0·14	+1·7
8	8 3 53	−2 35·72	− 2 33·3	11	+1·92	+14·4	+0·04	+0·4	14 0 51·12	99 47 54·5	1	+0·14	+1·9
9	7 33 39	−2 23·47	− 1 12·4	20	+1·91	+14·4	+0·03	+0·4	14 1 3·35	99 49 15·4	1	+0·09	+2·2
10	7 42 14	−2 10·69	+ 0 13·0	20	+1·90	+14·3	+0·04	+0·4	14 1 16·13	99 50 40·7	1	+0·14	+2·0
11	7 22 19	−1 57·75	+ 1 38·1	20	+1·88	+14·2	+0·03	+0·4	14 1 29·04	99 52 5·7	1	+0·14	+2·0
12	7 32 53	−1 44·28	+ 3 7·4	18	+1·87	+14·2	+0·03	+0·4	14 1 42·50	99 53 35·0	1	+0·18	+1·0

Ceres.

June 28	10 6 30	+1 16·07	− 4 44·9	10	+3·71	+ 7·3	−0·13	+0·7	18 15 5·27	117 22 26·1	2	−1·80	−5·8
29	8 41 47	+0 20·96	− 1 28·5	6	+3·72	+ 7·3	−0·22	+1·1	18 14 10·08	117 25 42·9	2	−1·91	−6·5
30	9 39 14	−0 40·23	+ 2 4·9	10	+3·73	+ 7·3	−0·15	+0·7	18 13 8·97	117 29 15·9	2	−1·66	−7·0
30	9 39 14	−0 2·08	...	10	+3·74	...	−0·15	...	18 13 8·95	...	3	−1·64	...
July 1	8 44 55	−1 36·03	+ 5 17·4	10	+3·75	+ 7·4	−0·20	+1·0	18 12 13·14	117 32 28·8	2	−1·88	−7·3
1	8 44 55	−0 57·97	...	10	+3·75	...	−0·20	...	18 12 13·02	...	3	−1·76	...
2	8 21 28	−2 33·07	+ 8 30·6	8	+3·76	+ 7·4	−0·22	+1·1	18 11 16·09	117 35 42·1	2	−1·79	−7·7
2	8 21 28	−1 54·88	...	8	+3·76	...	−0·22	...	18 11 16·10	...	3	−1·80	...
4	8 51 22	−1 4·51	− 2 55·3	9	+3·78	+ 7·7	−0·18	+0·8	18 9 20·22	117 42 2·6	4	−1·62	−5·0
5	9 6 46	−2 1·41	+ 0 10·0	9	+3·79	+ 7·8	−0·16	+0·7	18 8 23·35	117 45 7·9	4	−1·84	−5·2
7	8 12 36	−1 23·55	−12 24·5	9	+3·81	+ 8·3	−0·20	+1·0	18 6 34·27	117 50 53·4	5	−1·83	−4·0
8	8 45 56	+0 27·88	− 9 30·3	10	+3·82	+ 8·4	−0·16	+0·8	18 5 38·65	117 53 47·5	5	−2·03	−4·0

Date. 1895.	Windsor Mean Time.	Planet's Centre—Star. R.A.	Planet's Centre—Star. N.P.D.	No. of Comps.	Star Reductions R.A.	Star Reductions N.P.D.	Parallax Corrections. R.A.	Parallax Corrections. N.P.D.	Geocentric Apparent Place of Planet's Centre. R.A.	Geocentric Apparent Place of Planet's Centre. N.P.D.	Comp. Star.	Error of *Nautical Almanac.* R.A.	Error of *Nautical Almanac.* N.P.D.
	h m s	m s	′ ″		s	″	s	″	h m s	° ′ ″		s	″
July. 9	8 49 41	−0 26·37	− 6 44·7	10	+3·82	+ 8·4	−0·16	+0·7	18 4 44·40	117 56 33·0	5	−1·71	−3·3
12	7 38 8	−3 0·08	+ 0 59·7	10	+3·84	+ 8·5	−0·21	+1·0	18 2 10·66	118 4 17·8	5	−1·74	−4·6
15	7 17 2	−0 27·39	− 11 1·6	10	+3·85	+ 9·1	−0·21	+1·0	17 59 43·60	118 11 28·5	6	−1·79	−4·0
15	7 17 2	−1 46·08	...	10	+3·86	...	−0·21	...	17 59 43·51	...	7	−1·70	...
16	8 3 16	−1 16·06	− 8 39·1	10	+3·85	+ 9·2	−0·17	+0·7	17 58 54·97	118 13 50·8	6	−1·80	−5·8
16	8 3 16	−2 34·66	...	10	+3·86	...	−0·17	...	17 58 54·97	...	7	−1·80	...
17	8 32 4	−2 3·03	− 6 24·8	10	+3·85	+ 9·2	−0·13	+0·6	17 58 8·04	118 16 5·0	6	−1·74	−5·3
17	8 32 4	−3 21·65	...	10	+3·86	...	−0·13	...	17 58 8·02	...	7	−1·72	...

Adopted Mean Places of the Comparison Stars for 1895·0.

Star.	R.A. h m s	N.P.D. ° ′ ″	Authorities.
1	14 3 24·88	99 50 13·0	Greenwich Catalogues for 1864, 1872, 1880, and Radcliffe Catalogues for 1860, 1890.
2	18 13 45·62	117 27 3·0	Arg. Oeltzen 18,047, Arg. Gen. Cat. 24,978.
3	18 13 7·44	117 32 52·6	Arg. Oeltzen 18,028.
4	18 10 21·13	117 44 49·4	Arg. Gen. Cat. 24,884, Stone 9,960.
5	18 5 7·11	118 3 8·6	Arg. Oeltzen 17,772, Arg. Gen. Cat. 24,748.
6	18 0 7·35	118 22 20·0	Arg. Oeltzen 17,611, Arg. Gen. Cat. 24,623, Stone 9,860.
7	18 1 25·94	118 28 5·0	Arg. Oeltzen 17,653, Arg. Gen. Cat. 24,649, Stone 9,869.

Private Observatory, Windsor, N.S. Wales:
1895 September 13.

Observations of Encke's Comet made with the 15-inch Equatorial of the National Mexican Observatory, Tacubaya.

By Felipe Valle.

(*Communicated by the Secretaries.*)

Long. W. $6^h\ 36^m\ 46^s.53$. Lat. N. $19°\ 24'\ 17''.5$.

Date.	Tacubaya Mean Time.	Comet−Star. Δα	Comet−Star. Δδ	No. of Comps.	Observer.	Comet App. R.A.	Log. $p\times\Delta$ of Parallactic Factor.	Comet App. decl.	Log. $p\times\Delta$ of Parallactic Factor.	Red. to App. Place.		No. of Star.
1894.	h m s	m s	′ ″			h m s		° ′ ″		s	″	
Dec. 28	7 40 28·6	+3 48·13	+0 01·32	6–6	F. V.	22 14 49·03	+9·6790	+3 20 29·9	+0·4236	+2·31	+14·29	1
29	7 34 18·7	−0 33·17	+3 07·08	10–10	,,	22 14 33·68	+9·6767	+3 22 08·8	+0·4246	+2·35	+14·75	2
31	7 39 52·9	+0 42·76	−1 27·90	9–9	,,	22 14 01·59	+9·6918	+3 06 17·4	+0·4329	+2·31	+14·12	3
1895.												
Jan. 4	7 31 55·0	+0 54·48	−0 45·50	12–12	,,	22 12 27·64	+9·7005	+2 29 56·9	+0·4410	−0·75	− 5·75	4
12	7 10 34·9	−1 18·65	−0 05·36	7–7	,,	22 06 03·61	+9·7138	+0 39 55·3	+0·4601	−0·78	− 5·66	5
14	7 25 16·9	−0 13·95	+0 55·01	4–4	,,	22 03 09·83	+9·7299	−0 02 08·2	+0·4658	−0·79	− 6·12	6
15	7 03 07·2	−1 43·26	+2 22·11	7–7	,,	22 01 33·63	+9·7201	−0 24 52·4	+0·4686	−0·78	− 6·29	7
17	6 53 15·7	−1 33·01	+1 25·48	7–7	,,	21 57 32·85	+9·7205	−1 19 14·0	+0·4746	−0·79	− 6·76	8
18	7 11 35·7	+1 11·63	+1 53·22	4–4	,,	21 55 08·29	+9·7359	−1 51 11·8	+0·4710	−0·80	− 7·10	9
19	6 53 43·4	−0 22·79	−5 34·74	11–11	,,	21 52 30·52	+9·7297	−2 25 16·0	+0·4789	−0·80	− 7·27	10
21	6 51 36·0	−0 37·75	−5 21·52	8–8	,,	21 46 15·25	+9·7358	−3 45 28·9	+0·4465	−0·78	− 7·81	11
22	6 45 29·4	−4 38·20	−2 01·26	1–1	,,	21 42 37·38	+9·7370	−4 31 17·1	+0·4843	−0·79	− 7·98	12